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**System and Method for Programmable Illumination**

**Pattern Generation**

*MSK 2/15/06*  
The present application is a CIP of application serial number  
09/171,550 now U.S. Patent 6,251,691.

**Field of the Invention:**

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The present invention generally relates to the field of materials science and  
analytical chemistry.

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The present invention specifically relates to the realization of a complete,  
functionally integrated system for the implementation of biochemical analysis in a planar,  
miniaturized format on the surface of a conductive and/or photoconductive substrate, with  
applications in pharmaceutical and agricultural drug discovery and in in-vitro or genomic  
diagnostics. In addition, the method and apparatus of the present invention may be used to  
create material surfaces exhibiting desirable topographical relief and chemical functionality,  
and to fabricate surface-mounted optical elements such as lens arrays.

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